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# INFORMATION DISCLOSURE STATEMENT BY APPLICANT

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Sheet **1** of **5**

## Complete If Known

Application Number **107036,992**  
Filing Date **DECEMBER 29, 2001**  
First Named Inventor **SAFWAT, Sh rif**  
Group Art Unit **3643**  
Examiner Name **Kurt Rowan**  
Attorney Docket Number **2194DIV1**

## U.S. PATENT DOCUMENTS

Examiner Initials <sup>1</sup>	Cite No. <sup>1</sup>	U.S. Patent Document		Name of Patentee or Applicant of Cited Document	Date of Publication of Cited Document MM-DD-YYYY	Pages, Columns, Lines, Where Relevant Passages or Relevant Figures Appear
		Number	Kind Code <sup>2</sup> (if known)			
KR		1,026,544		YAMAMOTO, Takejiro	05/14/12	
		1,552,269		BROCKER, Walter C.	09/01/25	
		1,897,224		ANDREWS, Phillip R.	08/31/31	
		2,162,115		PAULS, Peter T.	06/13/39	
		2,511,057		GUTHRIE L., et.al.	06/13/50	
		2,590,586		THOMPSON, W.E. et.al.	03/25/52	
		2,792,617		HALLER, John, W.E.	05/21/57	
		2,816,386		HARRIS, V.L. et.al.	12/17/57	
		2,823,576		NEEDHAM, E.R., et.al.	02/18/58	
		2,999,413		MOMOI, Kazuo	09/12/61	
		3,041,915		RYFFEL, K., et.al.	07/03/62	
		3,102,357		LUKETA, Frank J.	09/03/63	
		3,129,632		STARR, Robert J.	04/21/64	
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		3,153,297		GRABOWSKY, M.G.	10/20/64	
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		3,369,317		BROWNELL, N. C.	02/20/68	
		3,606,815		YAMASHITA S., et.al.	09/21/71	
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## FOREIGN PATENT DOCUMENTS

Examiner Initials <sup>1</sup>	Cite No. <sup>1</sup>	Foreign Patent Document			Name of Patentee or Applicant of Cited Document	Date of Publication of Cited Document MM-DD-YYYY	Pages, Columns, Lines, Where Relevant Passages or Relevant Figures Appear	T <sup>5</sup>
		Office <sup>3</sup>	Number <sup>4</sup>	Kind Code <sup>2</sup> (if known)				
		DE	3543253	A1		06/1987		
		FR	2521065			06/1983		
		JP	57-13660			03/1982		
		JP	59-74630			04/1984		
		JP	60-30630			02/1985		
		JP	60-39702			03/1982		
		JP	60-88460			05/1985		
		JP	60-139860			07/1985		
		JP	61-386			08/1986		

Examiner  
Signature

Kurt Rowan

Date  
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8/7/2007

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<sup>1</sup> Unique citation designation number. <sup>2</sup> See attached Kinds of U.S. Patent Documents. <sup>3</sup> Enter Office that issued the document, by the two-letter code (WIPO Standard ST.3). <sup>4</sup> For Japanese patent documents, the indication of the year of the reign of the Emperor must precede the serial number of the patent document. <sup>5</sup> Kind of document by the appropriate symbols as indicated on the document under WIPO Standard ST. 16 if possible. <sup>6</sup> Applicant is to place a check mark here if English language Translation is attached.

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<b>Application Number</b>	<b>10/036,992</b>
<b>Filing Date</b>	<b>DECEMBER 29, 2001</b>
<b>First Named Inventor</b>	<b>SAFWAT, S.</b>
<b>Group Art Unit</b>	<b>3643</b>
<b>Examiner Name</b>	<b>Kurt Rowan</b>
<b>Attorney Docket Number</b>	<b>2194DIV1</b>

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Sheet	2	of	5
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Attorney Docket Number	2194DIV1
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U.S. PATENT DOCUMENTS

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## FOREIGN PATENT DOCUMENTS

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# **BEST AVAILABLE COPY** **INFORMATION DISCLOSURE** **STATEMENT BY APPLICANT**

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Sheet 3 of 5

Application Number 10/036,992  
Filing Date DECEMBER 29, 2001  
First Named Inventor SAFWAY, Sherif  
Group Art Unit 3643  
Examiner Name Kurt Rowan  
Attorney Docket Number 2194DIV1

## **OTHER PRIOR ART – NON PATENT LITERATURE DOCUMENTS**

Examiner Initials	Cite No. <sup>1</sup>	Include name of the author (in CAPITAL LETTERS), title of the article (when appropriate), title of the item (book, magazine, journal, serial, symposium, catalog, etc.), date, page(s), volume-issue number(s), publisher, city and/or country where published.	T <sup>2</sup>
		Batill, S.M., et al., "An Experimental Investigation of the Flow Field Around Yawed Stranded Cables"	
		Naval Coastal Systems Center, Panama City, Florida (1989)	
		Batill, S.M., et al., "Flow Field Studies on Yawed, Stranded Cables," in Flow Visualization, V. R. Reznicek ed.,	
		Hemisphere Publishing Corp., pp.391-396 (1990)	
		Batill, S.M., et al., "Detailed Near Surface Flow ABOUT Yawed, Stranded Cables", Coastal systems Station, Dehigren Division,	
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		Breidenthal, R., Phus. Fluids, Vol. 23, No. 10, p. 1931 (1980)	
		Germak, J.E., "Aerodynamics of Buildings," Annual review of Mechanics 8 p. 99 (1976)	
		Diggs, Jesse S., "Hydrodynamic Characterization of Various Towed Array Towcables," Towed systems Branch,	
		Naval Ship Research and Development Center, Bethesda, Maryland (1974).	
		Endeco, Inc., "Haired Faired Cable," Endeco Towed Systems (date unknown)	

Examiner  
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Kurt Rowan

Date  
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## INFORMATION DISCLOSURE STATEMENT BY APPLICANT

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Sheet **4** of **5**

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Filing Date	DECEMBER 29, 2001
First Named Inventor	SAFWAT, Sherif
Group Art Unit	3643
Examiner Name	Kurt Rowan
Attorney Docket Number	2194DIV1

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		<del>Plugwiss, Z., Weltraumforsch 14, p. 40 (date unknown)</del>	
		<del>Garner, John "How to Make and Set Nets or The Technology of Netting," Fishing News Books Limited, 1962</del>	
		<del>Hoerner, S.F., "Fluid Dynamic Drag," published by author, pp. 3-2 and 4-4 (1965).</del>	
		<del>Hoerner, S.F., "III-Pressure Drag," published by author, pp. 3-7, 3-9, 3-11 and 3-27 (1965).</del>	
		<del>Hoerner, S.F., "IV-Structures," published by author, p.4-5 (1965).</del>	
		<del>Hunt, J.G.R., "Industrial and Environmental Fluid Mechanics," Annual Review of Fluid Mechanics 23, pp. 10-12 (1991).</del>	
		<del>Klust, Gerhard, "Netting Materials for Fishing Gear", published by Food and Agriculture Organization of the United Nations, 1973</del>	
		<del>"Knuckleballs," Scientific American, p. 22 (1987)</del>	
		<del>Lisowski, Fig. 7, Experimental Lift and Drag Histories for Bluff Plate, p. 95 (1993).</del>	
		<del>Mehta, Rabindra D., "Aerodynamics of Sports Balls," Ann. Rev. Fluid Mech. 17:151-189 (1985).</del>	
		<del>Nebres, Jose V., "Flow Around Yawed Stranded Cables," Master's Thesis, University of Norte Dame, Indiana (1989).</del>	

Examiner  
Signature

*Kurt Rowan*

Date  
Considered

*8/7/2007*

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		<del>Nobres, Jose V., "Wake Similarity and Vortex Formation for Two-Dimensional Bluff Bodies," Doctoral Dissertation, University of Norte Dame, Indiana (1992).</del>	
		<del>Oceanographic Ribbon Fairing Cable, The rochester Corporation, Cat-82 (date unknown).</del>	
		<del>Roshko, A., "Perspectives on Bluff Body Aerodynamics," Second International Colloquium on Bluff Body Aerodynamics</del>	
		<del>and Application, Melbourne, 7-10, pp. 81 (1992).</del>	
		<del>"On the Persistence of Transition in the Near-Wake," pp. 607 and 609. Problems of Hydrodynamics and Continuum Mechanics, Soc.</del>	
		<del>Industrial and Appl. Math., Philadelphia (1969).</del>	
		<del>"Examples of Spectrum products, specific projects and end-users," Spectrum Ocean Systems Limited, Peterborough, Ontario (date unknown).</del>	
		<del>"Fairing and Anti-Stacking Ring Assemblies for Tow Cables," Spectrum Ocean Systems Limited, Peterborough, Ontario (date unknown).</del>	
		<del>Williamson, C.H.K., "Oblique and Parallel Modes of Vortex Shedding in the Wake of a Circular Cylinder at Low Reynolds Numbers,"</del>	
		<del>Journal of Fluid Mechanics 206:595 and 597, 1989.</del>	
		<del>The Zippertubing Co. product data sheets and bulletins for DVH-20 AND DVH-40 cable fairings, specifications, and installation (date unknown).</del>	

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